

GenCore version 5.1.1.3
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OM protein - protein search, using sw model

Run on: November 30, 2002, 12:35:03 ; Search time 11.5 Seconds
(without alignments)
1286.933 Million cell updates/sec

Title: US-10-025-514-16

Perfect score: 2675

Sequence: 1 MEDPGDAAQKTDTSHDQD.....RDLKCCMCKSCVSPVKA 503

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents_AA.*
1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep.*
2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2030	75.9	394	3	US-09-023-339-1
2	2030	75.9	418	1	US-08-121-714-3
3	2030	75.9	418	1	US-08-477-108A-3
4	2030	75.9	418	2	US-08-477-112-3
5	2030	75.9	418	5	PCT-US93-08322-3
6	2024	75.7	394	1	US-08-002-202-6
7	2019	75.5	394	2	US-08-553-488A-1
8	2018	75.4	394	1	US-08-002-202-11
9	2014	75.3	394	3	US-08-481-534-6
10	2013	75.3	394	1	US-08-002-202-9
11	2008	75.1	394	3	US-08-481-534-11
12	2003	74.9	394	3	US-08-481-534-9
13	1988	74.3	414	1	US-08-002-202-17
14	1988	74.3	414	3	US-08-481-534-17
15	1982	74.1	414	1	US-08-002-202-13
16	1982	74.1	414	3	US-08-481-534-13
17	1977	73.9	414	1	US-08-002-202-19
18	1977	73.9	414	3	US-08-481-534-19
19	1392	52.0	308	1	US-07-859-480-2
20	815.5	30.5	405	1	US-07-829-954-2
21	815.5	30.5	405	1	US-07-994-423-2
22	815.5	30.5	405	1	US-08-421-891-2
23	638.5	23.9	132	1	US-08-304-051-21
24	638.5	23.9	132	5	PCT-US95-11445-21
25	635	23.7	107	2	US-07-963-538B-4
26	587	21.9	107	3	US-08-483-503A-4
27	543.5	20.3	436	3	US-08-660-347-2

28	541.5	20.2	444	4	US-09-271-608-8	Sequence 8, Appl1
29	541.5	20.2	444	4	US-09-695-950-8	Sequence 8, Appl1
30	541.5	20.2	444	4	US-09-696-147-8	Sequence 8, Appl1
31	541.5	20.2	444	4	US-09-696-147-8	Sequence 8, Appl1
32	530.5	19.8	390	1	US-08-568-147B-2	Sequence 2, Appl1
33	527.5	19.7	390	4	US-09-266-910-4	Sequence 4, Appl1
34	526.5	19.7	390	4	US-09-266-910-3	Sequence 3, Appl1
35	515.5	19.3	376	1	US-08-464-148-4	Sequence 4, Appl1
36	515.5	19.3	376	1	US-08-385-500-4	Sequence 4, Appl1
37	515.5	19.3	376	1	US-08-846-784-4	Sequence 4, Appl1
38	489.5	18.3	382	1	US-07-768-286B-6	Sequence 4, Appl1
39	489.5	18.3	382	1	US-08-487-823B-3	Sequence 6, Appl1
40	489.5	18.3	382	2	US-08-997-040-3	Sequence 3, Appl1
41	489.5	18.3	382	2	US-09-203-237-3	Sequence 3, Appl1
42	488.5	18.3	376	4	US-09-200-965-2	Sequence 2, Appl1
43	487	18.2	375	1	US-08-121-714-8	Sequence 8, Appl1
44	487	18.2	375	1	US-08-477-108A-8	Sequence 8, Appl1
45	487	18.2	375	2	US-08-477-112-8	Sequence 8, Appl1

ALIGNMENTS

RESULT 1
US-09-023-339-1
; Sequence 1, Application US/09023339
; Patent No. 6127145
; GENERAL INFORMATION:
; APPLICANT: Sutliff, Thomas D.
; APPLICANT: Rodriguez, Raymond L.
; TITLE OF INVENTION: Production of '1-Antitrypsin
; TITLE OF INVENTION: In Plants
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: P.O. Box 60850
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,339
; FILING DATE: 13-FEB-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/037,991
; FILING DATE: 13-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Petithory, Joanne R
; REGISTRATION NUMBER: P42,995
; REFERENCE/DOCKET NUMBER: 0665-0003.30
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-0880
; TELEFAX: 650-324-0960
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; IMMEDIATE SOURCE:
; CLONE: mature AAT amino acid sequence
US-09-023-339-1

Query Match 75.9%; Score 2030; DB 3; Length 394;
Best Local Similarity 100.0%; Pred. No. 6,7e-167;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 EDPQDAAQKTDTSHDQDHPTEFNKTPNLAFAFSLYRLAHSNSTNIFFSPYSIATA 61

[illegible]

```

RESULT 3
US-08-477-108A-3
; Sequence 3, Application US/08477108A
; Patent No. 5601001
; GENERAL INFORMATION:
; APPLICANT: Sager, Ruth
; APPLICANT: Zou, Zhiqiang
; APPLICANT: Antosiewicz, Anthony
; TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH
; TITLE OF INVENTION: TUMOR SUPPRESSING ACTIVITY
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2604
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 595X
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,108A
; FILING DATE: June 7, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/121,714
; FILING DATE: 09/01/93
; APPLICATION NUMBER: 07/938,823
; FILING DATE: 09/01/92
; APPLICATION NUMBER: 07/844,296
; FILING DATE: 02/28/92
; APPLICATION NUMBER: 07/662,216
; FILING DATE: 02/28/91
; ATTORNEY/AGENT INFORMATION:

```

NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 06570/002002
TELEPHONE: (617) 542-8906
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 418
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-477-108A-3

Query Match 75.9%; Score 2030; DB 1; Length 418;
Best Local Similarity 100.0%; Pred. No. 7.3e-167;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 122 SEGKLVDKFLVDVKKLYHSEAFVNFQDTEEAQKQINDYVEKGTQGIIVDLVKELDRDT 181
DB 145 SEGKLVDKFLVDVKKLYHSEAFVNFQDTEEAQKQINDYVEKGTQGIIVDLVKELDRDT 204
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DB 205 VFALVNYIFFKKGWERPFVVKDTEEDFHVQDVTTVKVPMMKRLGMFNIQHKLSWVL 264
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DB 265 LMKYLGNTAIFFLPDEGKLOHLENELTHDITKFELENEDRRSASLHLPKLSITGYDLK 324
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DB 325 SVLGOLGITKVFSGNADLSGVTEEAAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 384
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 395
DB 385 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 418

RESULT 4
US-08-477-112-3
Sequence 3, Application US/08477112
Patent No. 5905023
GENERAL INFORMATION:
APPLICANT: Sager, Ruth
TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH
TUMOR SUPPRESSING ACTIVITY
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 502 or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,112
FILING DATE:
CLASSIFICATION: 536

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/121,714
FILING DATE: 09/01/93
APPLICATION NUMBER: 07/938,823
FILING DATE: 09/01/92
APPLICATION NUMBER: 07/844,296
FILING DATE: 02/28/92
APPLICATION NUMBER: 07/662,216
FILING DATE: 02/28/91
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 06570/002003
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 418
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-477-112-3

Query Match 75.9%; Score 2030; DB 2; Length 418;
Best Local Similarity 100.0%; Pred. No. 7.3e-167;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 25 EDPOGDAQKTDTSHHDDHPTFNKIPNLAFAFSLYROLAHQSNSTNIFSPVSIATA 84
QY 62 FAMLSTGKADTHDEILEGNLNLTEIPEAQIHEGFOELLRTLNQPSQLQTLTGNGLFL 121
DB 85 FAMLSTGKADTHDEILEGNLNLTEIPEAQIHEGFOELLRTLNQPSQLQTLTGNGLFL 144
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DB 145 SEGKLVDKFLVDVKKLYHSEAFVNFQDTEEAQKQINDYVEKGTQGIIVDLVKELDRDT 204
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DB 205 VFALVNYIFFKKGWERPFVVKDTEEDFHVQDVTTVKVPMMKRLGMFNIQHKLSWVL 264
QY 242 LMKYLGNTAIFFLPDEGKLOHLENELTHDITKFELENEDRRSASLHLPKLSITGYDLK 301
DB 265 LMKYLGNTAIFFLPDEGKLOHLENELTHDITKFELENEDRRSASLHLPKLSITGYDLK 324
QY 302 SVLGOLGITKVFSGNADLSGVTEEAAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 361
DB 325 SVLGOLGITKVFSGNADLSGVTEEAAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 384
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 395
DB 385 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTQK 418

RESULT 5
PCT-US93-08322-3
Sequence 3, Application PC/TUS9308322
GENERAL INFORMATION:
APPLICANT: Sager, Ruth
TITLE OF INVENTION: MASPIN, A NOVEL SERPIN WITH TUMOR SUPPRESSING ACTIVITY
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 502 or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/08322
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/938,823
FILING DATE: 09/01/92
APPLICATION NUMBER: 07/844,296
FILING DATE: 02/28/92
APPLICATION NUMBER: 07/662,216
FILING DATE: 02/28/91
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 00530/072001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 418
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
PCT-US93-08322-3

Query Match 75.9%; Score 2030; DB 5; Length 418;
Best Local Similarity 100.0%; Pred. No. 7.3e-167; Mismatches 0; Indels 0; Gaps 0;
Matches 394; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 25 EDPOGDAQAQKTDTSHHDDHPTFNKTPNLAFAFSLYRQLAHOSNSTNIFPSPVSIATA 84
QY 62 FAMLISGKADTHDEILEGLNFNLTEIPEAQIHEGFQELLRLNQPDSQLQTTGNGFL 121
DB 85 FAMLISGKADTHDEILEGLNFNLTEIPEAQIHEGFQELLRLNQPDSQLQTTGNGFL 144
QY 122 SEGKLVDKFLDVKKLYHSEAFVNFQDTEEDFHVQVTVKVPMMKRLGMFNIQHCCKLSSWVL 181
DB 145 SEGKLVDKFLDVKKLYHSEAFVNFQDTEEDFHVQVTVKVPMMKRLGMFNIQHCCKLSSWVL 204
QY 182 VFALVNYIFFKGKWERPFVKDTEEDFHVQVTVKVPMMKRLGMFNIQHCCKLSSWVL 241
DB 205 VFALVNYIFFKGKWERPFVKDTEEDFHVQVTVKVPMMKRLGMFNIQHCCKLSSWVL 264
QY 242 LMKYLGNAITFFLPDEGKLOHLENLTHDIITKFLNEDRRSASLHLPKLSITGTVDLK 301
DB 265 LMKYLGNAITFFLPDEGKLOHLENLTHDIITKFLNEDRRSASLHLPKLSITGTVDLK 324
QY 302 SVLGOLGITKVFNSGADLSGVTEEAAPLKSAVKHKAULTIDEKTEAAGAMFLEAIPMSI 361
DB 325 SVLGOLGITKVFNSGADLSGVTEEAAPLKSAVKHKAULTIDEKTEAAGAMFLEAIPMSI 384
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 395
DB 385 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 418

RESULT 6
US-08-002-202-6
Sequence 6, Application US/08002202
Patent No. 5604201
GENERAL INFORMATION:
APPLICANT: Thomas, Garry
APPLICANT: Anderson, Eric D
APPLICANT: Thomas, Laurel S
APPLICANT: Hayflick, Joel S

TITLE OF INVENTION: Methods and Reagents for Inhibiting
TITLE OF INVENTION: Furin Endoprotease
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Allegrretti and Witcoff, Ltd.
STREET: 10 South Wacker Drive, Suite 3000
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/002,202
FILING DATE: 08-JAN-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: No. 5604201ban, Kevin E
REGISTRATION NUMBER: 35,30003
REFERENCE/DOCKET NUMBER: 92,448
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1000
TELEFAX: 312-715-1234
TELEX: 910-221-5317
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 394 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-002-202-6

Query Match 75.7%; Score 2024; DB 1; Length 394;
Best Local Similarity 99.5%; Pred. No. 2.2e-166;
Matches 392; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 EDPOGDAQAQKTDTSHHDDHPTFNKTPNLAFAFSLYRQLAHOSNSTNIFPSPVSIATA 61
DB 1 EDPOGDAQAQKTDTSHHDDHPTFNKTPNLAFAFSLYRQLAHOSNSTNIFPSPVSIATA 60
QY 62 FAMLISGKADTHDEILEGLNFNLTEIPEAQIHEGFQELLRLNQPDSQLQTTGNGFL 121
DB 61 FAMLISGKADTHDEILEGLNFNLTEIPEAQIHEGFQELLRLNQPDSQLQTTGNGFL 120
QY 122 SEGKLVDKFLDVKKLYHSEAFVNFQDTEEDFHVQVTVKVPMMKRLGMFNIQHCCKLSSWVL 181
DB 121 SEGKLVDKFLDVKKLYHSEAFVNFQDTEEDFHVQVTVKVPMMKRLGMFNIQHCCKLSSWVL 180
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DB 181 VFALVNYIFFKGKWERPFVKDTEEDFHVQVTVKVPMMKRLGMFNIQHCCKLSSWVL 240
QY 242 LMKYLGNAITFFLPDEGKLOHLENLTHDIITKFLNEDRRSASLHLPKLSITGTVDLK 301
DB 241 LMKYLGNAITFFLPDEGKLOHLENLTHDIITKFLNEDRRSASLHLPKLSITGTVDLK 300
QY 302 SVLGOLGITKVFNSGADLSGVTEEAAPLKSAVKHKAULTIDEKTEAAGAMFLEAIPMSI 361
DB 301 SVLGOLGITKVFNSGADLSGVTEEAAPLKSAVKHKAULTIDEKTEAAGAMFLEAIPMSI 360
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 395
DB 361 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 394

RESULT 7
US-08-553-488A-1
Sequence 1, Application US/08553488A
Patent No. 5817484
GENERAL INFORMATION:

APPLICANT: YU, Myeong-Hee
 APPLICANT: KWON, Ki-Sun
 APPLICANT: LEE, Kee-Nyung
 APPLICANT: SHIN, Hwa-Soo
 TITLE OF INVENTION: THERMORESISTANT ALPHA-1-ANTITRYPSIN
 NUMBER OF SEQUENCES: 6
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: YU, Myeong-Hee
 STREET: 3-1003, Hankang Apartment, 49-8, Jamwon-dong,
 STREET: Seocho-gu
 CITY: Seoul
 STATE: Seoul
 COUNTRY: Republic of Korea
 ZIP: 137-030
 ADDRESSEE: KWON, Ki-Sun
 STREET: 130-1306, Hanbit Apartment, Oun-dong,
 STREET: Yuseong-gu
 CITY: Taejeon
 STATE: Taejeon
 COUNTRY: Republic of Korea
 ZIP: 305-333
 ADDRESSEE: LEE, Kee-Nyung
 STREET: 105-1004, Hanbit Apartment, Oun-dong,
 STREET: Yuseong-gu
 CITY: Taejeon
 STATE: Taejeon
 COUNTRY: Republic of Korea
 ZIP: 305-333
 ADDRESSEE: SHIN, Hwa-Soo
 STREET: 3-303, Sindonga Apartment, Yongjeon-dong,
 STREET: Dong-gu
 CITY: Taejeon
 STATE: Taejeon
 COUNTRY: Republic of Korea
 ZIP: 300-200
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
 COMPUTER: IBM PC/AT
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: KR 93-8510
 FILING DATE: 18-MAY-1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/553,488A
 FILING DATE: 20-NOV-1995
 ATTORNEY/AGENT INFORMATION:
 NAME:
 REGISTRATION NUMBER:
 REFERENCE/DOCKET NUMBER:
 TELECOMMUNICATION INFORMATION:
 TELEPHONE:
 TELEFAX:
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 394 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FEATURE:
 OTHER INFORMATION: wild type human '-1-antitrypsin
 US-08-553-488A-1

Query Match 75.5%; Score 2019; DB 2; Length 394;
 Best Local Similarity 99.2%; Pred. No. 5.9e-166;
 Matches 391; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 Qy 2 EDPOGDAQAQKTDTSHHDDHPTFNKIPNLAFAFSLYRLAHQSNSTNFFSPVSIATA 61
 Db 1 EDPOGDAQAQKTDTSHHDDHPTFNKIPNLAFAFSLYRLAHQSNSTNFFSPVSIATA 60

QY 62 FAMLGLTKADTHDEITLGLNENLFEIPAQIHGFGQELLRLTNQPSQLQTLTNGGLFL 121
 Db 61 FAMLGLTKADTHDEITLGLNENLFEIPAQIHGFGQELLRLTNQPSQLQTLTNGGLFL 120
 QY 122 SEGKLIVDKFLEDBVKKLYHSEAFVNFSGTDEEAKKQINDYVEKGQKIVDLVKELDRDT 181
 Db 121 SEGKLIVDKFLEDBVKKLYHSEAFVNFSGTDEEAKKQINDYVEKGQKIVDLVKELDRDT 180
 QY 182 VFALVNYIFFKCKWERPPFVKDTEDEDFHVDQVTVKVPMMKRLGMFNTOHCKKLSSWVL 241
 Db 181 VFALVNYIFFKCKWERPPFVKDTEDEDFHVDQVTVKVPMMKRLGMFNTOHCKKLSSWVL 240
 QY 242 LMKYLGNAITAFPLPDEGKLQHLNETHDIIITKFLNEDRRSASLHLPKLSITCTYDLK 301
 Db 241 LMKYLGNAITAFPLPDEGKLQHLNETHDIIITKFLNEDRRSASLHLPKLSITCTYDLK 300
 QY 302 SVLGQGITKVFNSGADLSGVTEAPLKLKSKAVHKAVALTIDKGTGAAGAMFLEAIPMSI 361
 Db 301 SVLGQGITKVFNSGADLSGVTEAPLKLKSKAVHKAVALTIDKGTGAAGAMFLEAIPMSI 360
 QY 362 PPEVKFNKPFVFLMLEONTKSPLEWKGKVVNPQK 395
 Db 361 PPEVKFNKPFVFLMLEONTKSPLEWKGKVVNPQK 394
 RESULT 8
 US-08-002-202-11
 ; Sequence 11, Application US/08002202
 ; Patent No. 5604201
 ; GENERAL INFORMATION:
 ; APPLICANT: Thomas, Garry
 ; APPLICANT: Anderson, Eric D
 ; APPLICANT: Thomas, Laurel
 ; APPLICANT: Hayflick, Joel S
 ; TITLE OF INVENTION: Methods and Reagents for Inhibiting
 ; TITLE OF INVENTION: Furin Endoprotease
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Allegretti and Witcoff, Ltd.
 ; STREET: 10 South Wacker Drive, Suite 3000
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60606
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/002,202
 ; FILING DATE: 08-JAN-1993
 ; CLASSIFICATION: 514
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5604201nan, Kevin E
 ; REGISTRATION NUMBER: 35,30003
 ; REFERENCE/DOCKET NUMBER: 92,448
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312-715-1000
 ; TELEFAX: 312-715-1234
 ; TELEX: 910-221-5317
 ; INFORMATION FOR SEQ ID NO: 11:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 394 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; FEATURE:
 ; NAME/KEY: Protein
 ; LOCATION: 1..394
 ; OTHER INFORMATION: /label= Variants
 ; OTHER INFORMATION: /note= "This amino acid sequence is the amino acid
 ; OTHER INFORMATION: sequence of the modified alpha-1-antitrypsin

; OTHER INFORMATION: variant, alpha-1-antitrypsin Pittsburgh "
US-08-002-202-11

Query Match 75.4%; Score 2018; DB 1; Length 394;
Best Local Similarity 99.2%; Pred. No. 7.2e-166;
Matches 391; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 EDPOGDAAKTDTSHHDQDHPFNKIPNLAFAFSLYRLAHQSNTNIFSPVSIATA 61
DB 1 EDPOGDAAKTDTSHHDQDHPFNKIPNLAFAFSLYRLAHQSNTNIFSPVSIATA 60
QY 62 FAMLISLGTAKADTHDEILBGLNPNLTPPEAQIHGEGFQELLRTLNQPSQLQTTGNGFL 121
DB 61 FAMLISLGTAKADTHDEILBGLNPNLTPPEAQIHGEGFQELLRTLNQPSQLQTTGNGFL 120
QY 122 SEGKLVDKFLVDVKLYHSEAFVNFQDTEEAQKQINDYVEKGTGKIVDLVKELDRDT 181
DB 121 SQGLKLVDFKFLVDVKLYHSEAFVNFQDTEEAQKQINDYVEKGTGKIVDLVKELDRDT 180
QY 182 VFALVNYIFFKQWERPFVKDTEEDFHVQDVTTVKVPMMKRLGMFNHQHCKKLSWVL 241
DB 181 VFALVNYIFFKQWERPFVKDTEEDFHVQDVTTVKVPMMKRLGMFNHQHCKKLSWVL 240
QY 242 LMKYLGNTAIFPLPDEGKLOHLENLTHDITTKFLENEDRRSASLHLPKLSITGTYDLK 301
DB 241 LMKYLGNTAIFPLPDEGKLOHLENLTHDITTKFLENEDRRSASLHLPKLSITGTYDLK 300
QY 302 SVLGQGITKVFVNSGADLSGVTEAPLKSKAVHKAVLTIIDEKTEAAGAMFLEAIPMSI 361
DB 301 SVLGQGITKVFVNSGADLSGVTEAPLKSKAVHKAVLTIIDEKTEAAGAMFLEAIPMSI 360
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLMGKVYNPTQK 395
DB 361 PPEVKFNKPFVFLMIEQNTKSPFLMGKVYNPTQK 394

RESULT 9

US-08-481-534-6
; Sequence 6, Application US/08481534
; Patent No. 6022855
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Hayflick, Joel S
; APPLICANT: Nelson, Jay
; APPLICANT: Stenglen, Stephan G
; TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
; TITLE OF INVENTION: Endoprotease
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481.534
; FILING DATE: 14-SEP-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 6022855nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 92,448-D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002

; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-481-534-6

Query Match 75.3%; Score 2014; DB 3; Length 394;
Best Local Similarity 99.0%; Pred. No. 1.6e-165;
Matches 390; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 EDPOGDAAKTDTSHHDQDHPFNKIPNLAFAFSLYRLAHQSNTNIFSPVSIATA 61
DB 1 EDPOGDAAKTDTSHHDQDHPFNKIPNLAFAFSLYRLAHQSNTNIFSPVSIATA 60
QY 62 FAMLISLGTAKADTHDEILBGLNPNLTPPEAQIHGEGFQELLRTLNQPSQLQTTGNGFL 121
DB 61 FAMLISLGTAKADTHDEILBGLNPNLTPPEAQIHGEGFQELLRTLNQPSQLQTTGNGFL 120
QY 122 SEGKLVDKFLVDVKLYHSEAFVNFQDTEEAQKQINDYVEKGTGKIVDLVKELDRDT 181
DB 121 SQGLKLVDFKFLVDVKLYHSEAFVNFQDTEEAQKQINDYVEKGTGKIVDLVKELDRDT 180
QY 182 VFALVNYIFFKQWERPFVKDTEEDFHVQDVTTVKVPMMKRLGMFNHQHCKKLSWVL 241
DB 181 VFALVNYIFFKQWERPFVKDTEEDFHVQDVTTVKVPMMKRLGMFNHQHCKKLSWVL 240
QY 242 LMKYLGNTAIFPLPDEGKLOHLENLTHDITTKFLENEDRRSASLHLPKLSITGTYDLK 301
DB 241 LMKYLGNTAIFPLPDEGKLOHLENLTHDITTKFLENEDRRSASLHLPKLSITGTYDLK 300
QY 302 SVLGQGITKVFVNSGADLSGVTEAPLKSKAVHKAVLTIIDEKTEAAGAMFLEAIPMSI 361
DB 301 SVLGQGITKVFVNSGADLSGVTEAPLKSKAVHKAVLTIIDEKTEAAGAMFLEAIPMSI 360
QY 362 PPEVKFNKPFVFLMIEQNTKSPFLMGKVYNPTQK 395
DB 361 PPEVKFNKPFVFLMIEQNTKSPFLMGKVYNPTQK 394

RESULT 10

US-08-002-202-9
; Sequence 9, Application US/08002202
; Patent No. 5604201
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Hayflick, Joel S
; TITLE OF INVENTION: Methods and Reagents for Inhibiting
; TITLE OF INVENTION: Furin Endoprotease
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti and Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/002.202
; FILING DATE: 08-JAN-1993
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5604201nan, Kevin E
; REGISTRATION NUMBER: 35,30003

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;
; REFERENCE/DOCKET NUMBER: 92.448
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..394
; OTHER INFORMATION: /label= Variant
; OTHER INFORMATION: /note= "this amino acid sequence is the amino acid
; OTHER INFORMATION: sequence of the modified alpha-1-antitrypsin
; OTHER INFORMATION: protein, alpha-1-antitrypsin Portland;"
;
US-08-002-202-9
;
Query Match 75.3%; Score 2013; DB 1; Length 394;
Best Local Similarity 99.0%; Pred. No. 1.9e-165;
Matches 390; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 EDQGDAAQKTDTSHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFSPVSIATA 61
Db 1 EDQGDAAQKTDTSHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFSPVSIATA 60

QY 62 FAMSLSGTTKADTHDEILEGLNFNLTEIPEAQIHEGFQELLRTLNQPSQLQLTGNGLFL 121
Db 61 FAMSLSGTTKADTHDEILEGLNFNLTEIPEAQIHEGFQELLRTLNQPSQLQLTGNGLFL 120

QY 122 SEGKLVDFLEVDKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 181
Db 121 SQGLKLVDFLEVDKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 180

QY 182 VFALVNYIFFKQKWERPFVKDTEEDFHVQDQVTVKVPMMKRLGMFNIOHCKKLSWVL 241
Db 181 VFALVNYIFFKQKWERPFVKDTEEDFHVQDQVTVKVPMMKRLGMFNIOHCKKLSWVL 240

QY 242 LMKYLGNTAIFFLPDEGKQLHLENLTHDITKFLNEDRRSASLHLPKLSITGTGYDLK 301
Db 241 LMKYLGNTAIFFLPDEGKQLHLENLTHDITKFLNEDRRSASLHLPKLSITGTGYDLK 300

QY 302 SVLGOLGTTKVFSGNADLSGVTEEAPLKLSKAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 361
Db 301 SVLGOLGTTKVFSGNADLSGVTEEAPLKLSKAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 360

QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 395
Db 361 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 394

RESULT 11
US-08-481-534-11
; Sequence 11, Application US/08481534
; Patent No. 602855
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
; APPLICANT: Thomas, Laurel
; APPLICANT: Haylick, Joel S
; APPLICANT: Nelson, Jay
; APPLICANT: Stanglen, Stephan G
; TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
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; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,534
; FILING DATE: 14-SEP-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 602285nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 92,448-D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0001
; TELEFAX: 312-913-0002
; TELEX:
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 394 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Modified site
; LOCATION: 355..358
; OTHER INFORMATION: /label=Variant
; OTHER INFORMATION: /note= "The amino acid sequence is the amino acid
; OTHER INFORMATION: sequence of the modified alpha-1-antitrypsin
; OTHER INFORMATION: protein, alpha-1-antitrypsin Pittsburgh."
;
US-08-481-534-11
;
Query Match 75.1%; Score 2008; DB 3; Length 394;
Best Local Similarity 98.7%; Pred. No. 5.2e-165;
Matches 389; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 EDQGDAAQKTDTSHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFSPVSIATA 61
Db 1 EDQGDAAQKTDTSHHDDHPTFNKITPNLAFAFSLYRQLAHQSNSTNIFSPVSIATA 60

QY 62 FAMSLSGTTKADTHDEILEGLNFNLTEIPEAQIHEGFQELLRTLNQPSQLQLTGNGLFL 121
Db 61 FAMSLSGTTKADTHDEILEGLNFNLTEIPEAQIHEGFQELLRTLNQPSQLQLTGNGLFL 120

QY 122 SEGKLVDFLEVDKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 181
Db 121 SQGLKLVDFLEVDKLYHSEAFVNFQDTEEAQKQINDYVEKGTQKIVDLVKELDRDT 180

QY 182 VFALVNYIFFKQKWERPFVKDTEEDFHVQDQVTVKVPMMKRLGMFNIOHCKKLSWVL 241
Db 181 VFALVNYIFFKQKWERPFVKDTEEDFHVQDQVTVKVPMMKRLGMFNIOHCKKLSWVL 240

QY 242 LMKYLGNTAIFFLPDEGKQLHLENLTHDITKFLNEDRRSASLHLPKLSITGTGYDLK 301
Db 241 LMKYLGNTAIFFLPDEGKQLHLENLTHDITKFLNEDRRSASLHLPKLSITGTGYDLK 300

QY 302 SVLGOLGTTKVFSGNADLSGVTEEAPLKLSKAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 361
Db 301 SVLGOLGTTKVFSGNADLSGVTEEAPLKLSKAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 360

QY 362 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 395
Db 361 PPEVKFNKPFVFLMIEQNTKSPFLFMGKVVNPTOK 394

RESULT 12
US-08-481-534-9
; Sequence 9, Application US/08481534
; Patent No. 602855
; GENERAL INFORMATION:
; APPLICANT: Thomas, Gary
; APPLICANT: Anderson, Eric D
```


APPLICANT: Thomas, Laurel
APPLICANT: Haylick, Joel S
APPLICANT: Nelson, Jay
APPLICANT: Stenglen, Stephan G
TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boenhen Hulbert & Berghoff
STREET: 300 South Wacker Drive
CITY: Chicago
STATE: IL
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: 14-SEP-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: No. 6022855nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 92,448-D
TELEPHONE: 312-913-0001
TELEFAX: 312-913-0002
TELEX:
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 394 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Modified site
LOCATION: 355..358
OTHER INFORMATION: /label=Variant
OTHER INFORMATION: /note="The amino acid sequence is the amino acid
sequence of the modified alpha-1-antitrypsin
protein, alpha-1-antitrypsin Portland.""
US-08-481-534-9

Query Match 74.9%; Score 2003; DB 3; Length 394;
Best Local Similarity 98.5%; Pred. No. 1.4e-164;
Matches 388; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY	2	EDPGDAAQKTDTS	HHDDHPTFNK	ITPNLA	EFAFSLYRQLAHQSNSTN	IFFSPVSIATA	61
DB	1	EDPGDAAQKTDTS	HHDDHPTFNK	ITPNLA	EFAFSLYRQLAHQSNSTN	IFFSPVSIATA	60
QY	62	FAMLSLGT	KADTHDEIL	EGLN	FNLTPEI	PAQIHEGFQELLRTLNQ	PSQQLTGTGNGLFL 121
DB	61	FAMLSLGT	KADTHDEIL	EGLN	FNLTQI	PEAQIHEGFQELLRTLNQ	PSQQLTGTGNGLFL 120
QY	122	SEGLKLV	KDFLE	VDKLYH	SEAFVNF	GDTEAKKQINDYVEKGTQGI	VDLVKELDRDT 181
DB	121	SOGLKLV	KDFLE	VDKLYH	SEAFVNF	GDTEAKKQINDYVEKGTQGI	VDLVKELDRDT 180
QY	182	VFALVNY	IFPKG	WERPE	FEVKDTE	EEHFVDQVTVKVP	PMKRLGMFNIHQCKLSSWVL 241
DB	181	VFALVNY	IFPKG	WERPE	FEVKDTE	EEHFVDQVTVKVP	PMKRLGMFNIHQCKLSSWVL 240
QY	242	LMKYLGN	NATAIFF	LPDE	GKQLH	LENELTHDITTKF	LENERRSASLHLPKLSITGTIDLK 301
DB	241	LMKYLGN	NATAIFF	LPDE	GKQLH	LENELTHDITTKF	LENERRSASLHLPKLSITGTIDLK 300
QY	302	SVLGQ	LGI	TKVPS	NGADLS	GVTEEA	PLKLSKAVHKAVLTIDEKGTAAAGAMFLERIPKSI 361
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QY 362 PPEVKFNKDFVFLMTEONTKSPFLFMGKVVNPTOK 395
DB 361 PPEVKFNKDFVFLMTEONTKSPFLFMGKVVNPTOK 394
RESULT 13
US-08-002-202-17
Sequence 17, Application US/08002202
Patent No. 5604201
GENERAL INFORMATION:
APPLICANT: Thomas, Gary
APPLICANT: Anderson, Eric D
APPLICANT: Thomas, Laurel S
TITLE OF INVENTION: Methods and Reagents for Inhibiting
TITLE OF INVENTION: Furin Endoprotease
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Allegretti and Witcoff, Ltd.
STREET: 10 South Wacker Drive, Suite 3000
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/002,202
FILING DATE: 08-JAN-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: No. 5604201nan, Kevin E
REGISTRATION NUMBER: 35,30003
REFERENCE/DOCKET NUMBER: 92,448
TELEPHONE: 312-715-1234
TELEFAX: 312-715-1234
TELEX: 910-221-5317
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 414 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-002-202-17

Query Match 74.3%; Score 1988; DB 1; Length 414;
Best Local Similarity 98.5%; Pred. No. 3e-163;
Matches 388; Conservative 1; Mismatches 1; Indels 4; Gaps 1;

QY	2	EDPGDAAQKTDTS	HHDDHPTFNK	ITPNLA	EFAFSLYRQLAHQSNSTN	IFFSPVSIATA	61
DB	25	EDPGDAAQKTDTS	HHDDHPTFNK	ITPNLA	EFAFSLYRQLAHQSNSTN	IFFSPVSIATA	84
QY	62	FAMLSLGT	KADTHDEIL	EGLN	FNLTPEI	PAQIHEGFQELLRTLNQ	PSQQLTGTGNGLFL 121
DB	85	FAMLSLGT	KADTHDEIL	EGLN	FNLTPEI	PAQIHEGFQELLRTLNQ	PSQQLTGTGNGLFL 140
QY	122	SEGLKLV	KDFLE	VDKLYH	SEAFVNF	GDTEAKKQINDYVEKGTQGI	VDLVKELDRDT 181
DB	141	SEGLKLV	KDFLE	VDKLYH	SEAFVNF	GDTEAKKQINDYVEKGTQGI	VDLVKELDRDT 200
QY	182	VFALVNY	IFPKG	WERPE	FEVKDTE	EEHFVDQVTVKVP	PMKRLGMFNIHQCKLSSWVL 241
DB	201	VFALVNY	IFPKG	WERPE	FEVKDTE	EEHFVDQVTVKVP	PMKRLGMFNIHQCKLSSWVL 260
QY	242	LMKYLGN	NATAIFF	LPDE	GKQLH	LENELTHDITTKF	LENERRSASLHLPKLSITGTIDLK 301
DB	261	LMKYLGN	NATAIFF	LPDE	GKQLH	LENELTHDITTKF	LENERRSASLHLPKLSITGTIDLK 320

QY 302 SVLGOLGITKVFSGADLSGVTEAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 361
DB 321 SVLGOLGITKVFSGADLSGVTEAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 380
QY 362 PPEVFNKPFVFLMIEQNTKSPFLMGKVVNPQTOK 395
DB 381 PPEVFNKPFVFLMIEQNTKSPFLMGKVVNPQTOK 414

RESULT 14

US-08-481-534-17
: Sequence 17, Application US/08481534
: Patent No. 6022855

: GENERAL INFORMATION:

: APPLICANT: Thomas, Gary
: APPLICANT: Anderson, Eric D
: APPLICANT: Thomas, Laurel
: APPLICANT: Hayflick, Joel S
: APPLICANT: Nelson, Jay
: APPLICANT: Stenglen, Stephan G

: TITLE OF INVENTION: Methods and Reagents for Inhibiting Furin
: NUMBER OF SEQUENCES: 21

: CORRESPONDENCE ADDRESS:

: ADDRESSEE: McDonnell Boenken Hulbert & Berghoff
: STREET: 300 South Wacker Drive
: CITY: Chicago

: STATE: IL

: COUNTRY: USA

: ZIP: 60606

: COMPUTER READABLE FORM:

: MEDIUM TYPE: Floppy disk

: COMPUTER: IBM PC compatible

: OPERATING SYSTEM: PC-DOS/MS-DOS

: SOFTWARE: PatentIn Release #1.0, Version #1.25

: CURRENT APPLICATION DATA:

: APPLICATION NUMBER: US/08/481,534

: FILING DATE: 14-SEP-1995

: CLASSIFICATION: 530

: ATTORNEY/AGENT INFORMATION:

: NAME: No. 6022855nan, Kevin E

: REGISTRATION NUMBER: 35,303

: REFERENCE/DOCKET NUMBER: 92,448-D

: TELECOMMUNICATION INFORMATION:

: TELEPHONE: 312-913-0001

: TELEFAX: 312-913-0002

: TELEX:

: INFORMATION FOR SEQ ID NO: 17:

: SEQUENCE CHARACTERISTICS:

: LENGTH: 414 amino acids

: TYPE: amino acid

: TOPOLOGY: linear

: MOLECULE TYPE: protein

: US-08-481-534-17

: Query Match 74.3%; Score 1988; DB 3; Length 414;

: Best Local Similarity 98.5%; Pred. No. 3e-163;

: Matches 388; Conservative 1; Mismatches 1; Indels 4; Gaps 1;

: QY 2 EDPQDAAQKTDTSHHDDHPTFNKTPNLAFAFSLYRLAQHSNSTNIFSPVSIATA 61

: DB 25 EDPQDAAQKTDTSHHDDHPTFNKTPNLAFAFSLYRLAQHSNSTNIFSPVSIATA 84

: QY 62 FAMLGLTKADTHDEILLEGFLNLTETPEAQIHEGFQELLRTLNQPSQLQTTGNGLFL 121

: DB 85 FAMLGLTKADTHDEILLEGFLNLTETPEAQIHEGFQELLRTLNQPSQLQTTGNGLFL 140

: QY 122 SEGKLVDKFLVDVKKLYHSEAFVNFCDTEAKKQINDYVEKGTQGIKIVDLVKELDRDT 181

: DB 141 SEGKLVDKFLVDVKKLYHSEAFVNFCDTEAKKQINDYVEKGTQGIKIVDLVKELDRDT 200

: QY 182 VFALVNIYFFKGKWERPFVKDTEEDFHVQVTVKVPMMKRLGMFNFIQHCCKLSSWVL 241

DB 201 VFALVNIYFFKGKWERPFVKDTEEDFHVQVTVKVPMMKRLGMFNFIQHCCKLSSWVL 260
QY 242 LMKYLGNTAIFFLPDBEGKLOHLENELTHDITKFLFENEDRRSASLHLPKLSITGTGDLK 301
DB 261 LMKYLGNTAIFFLPDBEGKLOHLENELTHDITKFLFENEDRRSASLHLPKLSITGTGDLK 320
QY 302 SVLGOLGITKVFSGADLSGVTEAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 361
DB 321 SVLGOLGITKVFSGADLSGVTEAPLKLKSAVHKAVLTIDEKGTAAAGAMFLEAIPMSI 380
QY 362 PPEVFNKPFVFLMIEQNTKSPFLMGKVVNPQTOK 395
DB 381 PPEVFNKPFVFLMIEQNTKSPFLMGKVVNPQTOK 414

RESULT 15

US-08-002-202-13

: Sequence 13, Application US/080022202

: Patent No. 5604201

: GENERAL INFORMATION:

: APPLICANT: Thomas, Gary

: APPLICANT: Anderson, Eric D

: APPLICANT: Thomas, Laurel

: APPLICANT: Hayflick, Joel S

: TITLE OF INVENTION: Methods and Reagents for Inhibiting

: TITLE OF INVENTION: Furin Endoprotease

: NUMBER OF SEQUENCES: 21

: CORRESPONDENCE ADDRESS:

: ADDRESSEE: Allegretti and Witcoff, Ltd.

: STREET: 10 South Wacker Drive, Suite 3000

: CITY: Chicago

: STATE: Illinois

: COUNTRY: USA

: ZIP: 60606

: COMPUTER READABLE FORM:

: MEDIUM TYPE: Floppy disk

: COMPUTER: IBM PC compatible

: OPERATING SYSTEM: PC-DOS/MS-DOS

: SOFTWARE: PatentIn Release #1.0, Version #1.25

: CURRENT APPLICATION DATA:

: APPLICATION NUMBER: US/08/002,202

: FILING DATE: 08-JAN-1993

: CLASSIFICATION: 514

: ATTORNEY/AGENT INFORMATION:

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: REFERENCE/DOCKET NUMBER: 92,448

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: INFORMATION FOR SEQ ID NO: 13:

: SEQUENCE CHARACTERISTICS:

: LENGTH: 414 amino acids

: TYPE: amino acid

: TOPOLOGY: linear

: MOLECULE TYPE: protein

: US-08-002-202-13

: Query Match 74.1%; Score 1982; DB 1; Length 414;

: Best Local Similarity 98.2%; Pred. No. 9.8e-163;

: Matches 387; Conservative 1; Mismatches 2; Indels 4; Gaps 1;

: QY 2 EDPQDAAQKTDTSHHDDHPTFNKTPNLAFAFSLYRLAQHSNSTNIFSPVSIATA 61

: DB 25 EDPQDAAQKTDTSHHDDHPTFNKTPNLAFAFSLYRLAQHSNSTNIFSPVSIATA 84

: QY 62 FAMLGLTKADTHDEILLEGFLNLTETPEAQIHEGFQELLRTLNQPSQLQTTGNGLFL 121

: DB 85 FAMLGLTKADTHDEILLEGFLNLTETPEAQIHEGFQELLRTLNQPSQLQTTGNGLFL 140

: QY 122 SEGKLVDKFLVDVKKLYHSEAFVNFCDTEAKKQINDYVEKGTQGIKIVDLVKELDRDT 181

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Db 141 SEGKLVDFLEDDVKLIHSEAFVNFSGTEAKQINDYVEKGTQGIKIVDLVVELDRDT 200
QY 182 VFALVNIFFKQKWERPEVKDTEEDFHVQVTVKVPMMKRLGMFNIQHCKKLSSWVL 241
Db 201 VFALVNIFFKQKWERPEVKDTEEDFHVQVTVKVPMMKRLGMFNIQHCKKLSSWVL 260
QY 242 LMKYLGNATAIFFLPDEGKQLQHLENELTHDIITKPLENEDRRSASLHLPKLSITGTYYDLK 301
Db 261 LMKYLGNATAMEFFLPDEGKQLQHLENELTHDIITKPLENEDRRSASLHLPKLSITGTYYDLK 320
QY 302 SVLGOLGITKVFVSGADLSGVTEEAAPLKLKAVHKAULTIDEKGTAAAGAMFLEAIPMSI 361
Db 321 SVLGOLGITKVFVSGADLSGVTEEAAPLKLKAVHKAULTIDEKGTAAAGAMFLEAIPRSI 380
QY 362 PPEVKFNKPPFVFLMIEQNTKSPFMGVVNPTQK 395
Db 381 PPEVKFNKPPFVFLMIEQNTKSPFMGVVNPTQK 414
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Search completed: November 30, 2002, 12:38:14
Job time : 13.5 secs